Montana
Department of
Natural Resources
and Conservation
Forested State Trust
Lands Habitat
Conservation Plan
Annual Update

Reporting
Period
January 1,
2017December 31,
2017





#### INTRODUCTION

The Montana Department of Natural Resources and Conservation (DNRC) Forested State Trust Lands Habitat Conservation Plan (HCP) is a plan DNRC developed in cooperation with the United States Fish & Wildlife Service (USFWS) to acquire an Incidental Take Permit (Permit) for the Forest Management Program for a 50-year term. In the HCP, DNRC committed to provide the USFWS annual and 5-year monitoring reports for the duration of the plan. The monitoring reports help the two agencies evaluate DNRC's compliance with required measures, and the effectiveness of conservation commitments. This is the sixth annual update, and the reporting period for this update is January 1, 2017-December 31, 2017. According to the results reported in the following sections, DNRC has fulfilled its annual commitments for monitoring and reporting according to HCP Chapter 4 – Monitoring and Adaptive Management (DNRC 2010).

As outlined in Chapter 8 (HCP Implementation), DNRC and the USFWS are required to meet annually. These meetings allow DNRC to present the USFWS with annual updates, evaluate new science, and they foster communication between the two agencies (DNRC 2010).

#### MONITORING AND ADAPTIVE MANAGEMENT

During development of the HCP conservation strategies, DNRC and the USFWS included commitments to monitor key components of the strategies. The monitoring and adaptive management program provides assurances that the HCP is being appropriately and effectively implemented, and it outlines a course of action if the conservation strategies are not yielding the desired results.

#### **Monitoring**

There are two types of monitoring: (1) implementation monitoring and (2) effectiveness monitoring. Implementation monitoring ensures implementation of DNRC's conservation commitments throughout the Permit term. Implementation monitoring represents DNRC's largest monitoring commitment associated with the HCP, and it involves tracking, reporting and evaluating whether the covered activities are being performed in compliance with the HCP requirements. Implementation is primarily documented through project-level HCP checklists and validated through office and field reviews (DNRC 2010).

Effectiveness monitoring typically involves evaluation of a particular conservation commitment or suite of commitments designed to have a desired effect on a target species or resource. This type of monitoring is intensive and requires considerable resources and expertise to conduct data collection and perform related analyses. Effectiveness monitoring for the HCP is fulfilled through a commitment by both DNRC and the USFWS to consider any new relevant research at annual meetings, and through DNRC's commitment to conduct monitoring to evaluate whether management prescriptions and conservation commitments are having the desired effect on the given species.

The monitoring tables in this update summarize both the implementation and effectiveness monitoring that took place during this reporting period. The tables contain information that must be reported annually as described in tables in the HCP Chapter 4 (DNRC 2010). The tables contain abbreviated descriptions of the HCP commitments that DNRC is required to report on annually. For full descriptions of those commitments, please see Chapter 2 of the HCP.

#### **Adaptive Management**

Adaptive management is a process whereby conservation commitments and management actions may be changed based on the results obtained from effectiveness monitoring and/or research. This process results in a feedback loop that incorporates improved information into everyday practices. This update serves as a component of the adaptive management process.

#### HCP CHECKLIST

HCP implementation checklists are the primary tool that DNRC uses to demonstrate and document compliance with HCP commitments. The HCP implementation checklists are macro-enabled spreadsheets that list specific commitments applicable to each field office. The checklists allow forest management staff to verify which commitments are applicable on a particular project, if they are being implemented, and how they are being implemented. The checklists serve as prompts to help ensure that all applicable commitments are considered and applied appropriately on each project. The checklists also aid in organizing, tracking and summarizing commitment application and any necessary allowances. At the end of the reporting period checklist data is compiled into a database that provides summary information required in the annual updates and 5-year reports. Much of the information presented in the following tables was compiled using the checklists and the associated database. There were 33 HCP checklists completed during this reporting period all of which were associated with commercial timber harvest.

#### **GRIZZLY BEAR**

DNRC manages state trust lands located in grizzly bear habitat. The following table outlines the annual reporting requirements and results for grizzly bears.

Table 1 Grizzly bear reporting requirements and results

| HCP COMMITMENT (Reporting Frequency)   | REPORTING<br>REQUIREMENTS                                      | ACCOMPLISHMENTS<br>& RESULTS   | HCP<br>Page(s) |
|--|--|--|----------------|
| GB-PR4   | HCP Checklist was reviewed                                     | From HCP implementation checklist  | v.2.4-11       |
| Constructed open roads and minimized road in RMZs, WMZs or avalanche chutes. | on each project.  All projects with such construction, and the | Number of projects that were reviewed = 33                                       |                |
| (allowances reported annually)   | circumstances, would be reported.                              | Number of projects had open road construction in one or more of these areas = 0. |                |
| GB-PR5   | Report active den sites  | No active dens were found in 2017.   | v.2.4-11       |
| Suspend motorized  | found, including   |  |                |
| forest management  | the following information (to                                  |  |                |
| activities within 0.6  | the extent it is available): (1)                               |  |                |
| mile of active den   | location of the den,   |  |                |
| sites until May 31   | (2) when the bear was  |  |                |
|  | documented as present and                                      |  |                |

Table 1 Grizzly bear reporting requirements and results

| HCP  | REPORTING  | ACCOMPLISHMENTS                      | НСР       |
|--|--|--------------------------------------|-----------|
| COMMITMENT                                       | REQUIREMENTS                                     | & RESULTS                            | Page(s)   |
| (Reporting                                       |  |                                      | 3 3 3 (3) |
| Frequency)                                       |  |                                      |           |
|  | by whom, (3) when the                            |                                      |           |
|  | bear vacated the site (if                        |                                      |           |
|  | known), and (4) a description                    |                                      |           |
|  | of activities that were                          |                                      |           |
|  | delayed as a result of the den                   |                                      |           |
|  | site.  |                                      |           |
| GB-RZ6   | Use HCP Implementation                           | There were 0 reciprocal access       | v.2.4-15  |
| Granting of                                      | Checklist to Identify                            | agreements reported within grizzly   |           |
| Easements  | Circumstances and Mitigation Associated with the | bear recovery zones for 2017.        |           |
| <ul><li>Discourage</li><li>granting of</li></ul> | Easement.  |                                      |           |
| easements that                                   | Lasement.  |                                      |           |
| relinguish DNRC                                  | Annually compile the number                      |                                      |           |
| control on roads                                 | of easements granted and                         |                                      |           |
| within grizzly bear                              | associated miles of newly                        |                                      |           |
| recovery zone.                                   | created open roads.                              |                                      |           |
| (annual and 5 year)                              |  |                                      |           |
| GB-ST1(2)  | Number and locations                             | Stillwater Unit has 6 mapped sign    |           |
| Has DNRC installed                               | included in accomplishment                       | locations for the Stillwater Block   |           |
| bear presence signs?                             | report for Stillwater Unit.                      | that were reported to the USFWS in   |           |
| Is DNRC maintaining                              | Provide informal updates on                      | 2012. Four signs located at key      |           |
| these signs?                                     | maintenance issues as                            | locations have been installed and    |           |
|  | needed.  | maintained on the main block. Signs  |           |
|  |  | continue to be maintained and        |           |
|  |  | installed as required under the HCP. |           |
| GB-SC1   | Report open road amounts                         | Number of projects reviewed when     | v.2.4-22  |
| Maintain or decrease                             | (tracked with GIS) at the                        | applicable using open road           | V.Z.7 ZZ  |
| baseline open road                               | administrative unit level to                     | reduction checklists = 5             |           |
| amounts at the                                   | compare with HCP baseline.                       |                                      |           |
| administrative unit                              | -  | See Attachment GB-1, which           |           |
| level. Improve GIS                               | GIS data quality and                             | provides information regarding road  |           |
| road layer. (annually                            | management reported at                           | amounts by road class, unit office   |           |
| as needed)                                       | annual meeting.                                  | and area office during the           |           |
|  |  | monitoring period as compared with   |           |
|  |  | baseline levels in 2012.             |           |
|  |  | Unit 2012 ITP 2017                   |           |
|  |  | KAL 17.8 12.6<br>STW 1.8 1.7         |           |
|  |  | CLW 16.8 9.5                         |           |
|  |  | MSO 4.1 0.0                          |           |
|  |  | HEL 0.2 0.1                          |           |

Table 1 Grizzly bear reporting requirements and results

| HCP<br>COMMITMENT<br>(Reporting<br>Frequency)   | REPORTING<br>REQUIREMENTS   | ACCOMPLISHMENTS<br>& RESULTS  | HCP<br>Page(s) |
|---|---|---|----------------|
| GB-SC4  | Report Pits Operated >0.25 Miles From Open Roads in Resting Parcels and Mitigations Applied.  | No minor projects in resting parcels required the use of gravel sources greater than 0.25 miles from an open road during the monitoring period. |                |
| GB-CY4 Has DNRC expedited reduction of open road densities for recovery zone parcels? | Compile and report information from Open Road Reduction Checklist (Appendix B, Document B-2) for all CYE recovery zone parcels (does not include CYE NROH parcels). | Initially completed in 2012.  | v.2.4-25       |

## **CANADA LYNX**

Some forested trust lands managed by DNRC occur within the distribution of Canada lynx, which was listed as threatened in 2000 by the USFWS. The following table outlines the reporting requirements and results for Canada lynx.

Table 2 Canada lynx reporting requirements and results

| HCP<br>COMMITMENT<br>(Reporting<br>Frequency)                                  | REPORTING<br>REQUIREMENTS  | ACCOMPLISHMENTS<br>& RESULTS   | HCP<br>Page(s) |
|--|--|--|----------------|
| LY-HB1 Lynx Habitat Map – Track lynx habitat in the HCP project area. (annual) | Provide lynx habitat map depicting annual changes and table that includes lynx habitat amounts by type for each administrative unit and LMA. | Results are provided for year 2017 in Habitat tables found in Attachment L-1 and L-2. Total potential habitat overall has decreased by 3,570 acres on non-LMA lands since the baseline habitat data run conducted in 2012. This decrease is primarily due to correction of a habitat model error applicable to the Central Land Office where approximately 3,133 acres of nonforested habitat were removed. Data for all land offices are presented in Attachment L-2. | v.2.4-29       |
| LY-HB6   | Report acres and   | CLO = 27,302 ac; 79% suitable  | v.2.4-32       |
| Maintain 65/35%  | percentage of total  | NWLO = 55,652 ac; 85% suitable   |                |
| ratio of suitable/non-   | potential lynx habitat,  | SWLO = 19,838 ac; 80% suitable   |                |

| HCP COMMITMENT (Reporting Frequency)   | REPORTING   | ACCOMPLISHMENTS                        | HCP     |
|--|---|--|---------|
|  | REQUIREMENTS  | & RESULTS                              | Page(s) |
| suitable habitat on<br>scattered parcels<br>outside of LMAs.<br>(year 2 and 5) | suitable lynx habitat and<br>temporary non-suitable<br>habitat on scattered<br>parcels outside the LMAs<br>for each land office | See lynx habitat table Attachment L-2. |         |

## **AQUATICS**

The aquatic conservation strategies were developed by DNRC with the technical assistance of the USFWS. The process was initiated by identifying a specific biological goal applicable to the three HCP fish species. The identified biological goal was to protect bull trout, westslope cutthroat trout and Columbia redband trout populations and their habitat and to contribute to habitat restoration or rehabilitation, as appropriate, which may have been affected by past DNRC forest management activities. Commitments were developed to address known scientific information and uncertainties in scientific knowledge, as well as existing data gaps (DNRC 2010). The following table outlines the reporting requirements and results for the Aquatics Conservation Strategy.

| HCP COMMITMENT (Reporting Frequency)                                 | REPORTING<br>REQUIREMENTS   | ACCOMPLISHMENTS<br>& RESULTS  | HCP<br>Page(s) |
|--|---|---|----------------|
| AQ-RM (1) Riparian Management Zone Commitments. (annual)             | Complete HCP<br>Implementation checklist<br>review on all sites.  | During 2017, RMZs were delineated on<br>17 projects containing Class 1 streams or<br>lakes. 10 of these projects include<br>harvest plans for a total of<br>approximately 74.7 acres of RMZ<br>harvest.   | v. 2.4-39      |
| AQ-RM (2) Thresholds for RMZ harvest allowances. (annual and 5 year) | Acres of Class 1 RMZ, Acres of Class 1 RMZ harvest under allowances, and RMZ area in non- stocked or seed/sapling size class, by aquatic analysis unit (AAU). | A total of 74.7 acres of the managed portion of the RMZ were harvested in 2017. Allowances were invoked on 3 projects for a total of 23.5 acres. Allowance #2: 6.5 acres Allowance #3: 17 acres Percent total non-stocked, seedling-sapling size class/AAU: Bitterroot: 32.7% Blackfoot: 2.5% Flathead Lake: 8.7% Lower Clark Fork: 0.0% Middle Clark Fork: 5.7% Lower Kootenai: 11.1% Middle Kootenai: 3.3% Upper Kootenai: 6.0% | v. 2.4-39      |

|                                       | ing requirements and results                   | ACCOMPLICIMENTS   | LIOP     |
|---------------------------------------|--|---|----------|
| НСР                                   | REPORTING                                      | ACCOMPLISHMENTS   | HCP      |
| COMMITMENT                            | REQUIREMENTS                                   | & RESULTS   | Page(s)  |
| (Reporting                            |  |   |          |
| Frequency)                            |  | North Ford Floth and 22 00/   |          |
|                                       |  | North Fork Flathead: 22.0%  |          |
|                                       |  | Rock Creek: 6.9%<br>Stillwater: 4.1%  |          |
|                                       |  | Swan: 3.4%  |          |
|                                       |  | Upper Missouri: 5.9%  |          |
|                                       |  | <b>Opper 1411330411.</b> 5.570  |          |
| AQ-SD                                 | Amount of new road                             | See attachment SD-1 on page 17.   | v.2.4-40 |
| Implement                             | constructed, reconstructed,                    | 1                                     |          |
| sediment delivery                     | relocated, abandoned and                       |   |          |
| reduction                             | reclaimed.                                     |   |          |
| commitments.                          |  |   |          |
| (annual)                              |  |   |          |
| AQ-FC                                 | Maintain planning schedule                     | DNRC completed a preliminary  | v.2.4-41 |
| 1/6 of sites in need                  | and report                                     | inventory of stream crossing sites in                                       |          |
| of corrective                         | accomplishments.                               | 2006 and the results were reported in                                       |          |
| actions                               |  | HCP/EIS. The original HCP baseline  |          |
| implemented,                          |  | included 106 inventoried stream   |          |
| planned or                            |  | crossing sites in need of corrective  |          |
| designed every 5                      |  | actions. To date, 35 new sites have been                                    |          |
| years.                                |  | added to the inventory for a total of 141                                   |          |
| All priority 1 sites completed within |  | crossing sites. Currently, 60 sites have been removed from the planning     |          |
| 15 years. All sites                   |  | schedule (See Aquatic Attachment #4 –                                       |          |
| completed with 30                     |  | HCP Fish Connectivity Implementation  |          |
| years.                                |  | Monitoring). This includes 19 sites   |          |
| (annual and 5 year)                   |  | where corrective actions have been  |          |
| (0)                                   |  | implemented. There are 81 sites   |          |
|                                       |  | remaining in need of corrective actions                                     |          |
|                                       |  | or assessment. The HCP 5- year target                                       |          |
|                                       |  | requires DNRC to address 1/6 of the   |          |
|                                       |  | sites in need of corrective actions (17                                     |          |
|                                       |  | total sites) by 2017. The five-year goal                                    |          |
|                                       |  | has been achieved, and only one Priority                                    |          |
|                                       |  | 1 site remains in need of corrective  |          |
| 10.07                                 |  | actions.  | 0.4.11   |
| AQ-GZ                                 | Update status of grazing                       | For the 2017 monitoring period, 65  | v.2.4-41 |
| Implement grazing                     | evaluations and                                | grazing evaluations were completed on                                       |          |
| conservation                          | verifications completed, and corrective action | HCP parcels. Of these evaluations, 16                                       |          |
| strategies for grazing licenses on    | implemented.                                   | (25%) support an HCP fish species.  During the review of grazing evaluation |          |
| classified forest                     | implemented.                                   | data, 5 parcels (7%) showed evidence  |          |
| lands. (annual)                       |  | that further verification was necessary.                                    |          |
| lanas. (annual)                       |  | that farther verification was fielessally.                                  |          |

| HCP                            | ting requirements and results REPORTING                  | ACCOMPLISHMENTS   | НСР      |
|--------------------------------|--|---|----------|
| COMMITMENT                     | REQUIREMENTS   | & RESULTS   | Page(s)  |
| (Reporting                     | REQUIREMENTS   | G N200210   | i ago(o) |
| Frequency)                     |  |   |          |
|                                |  |   |          |
|                                |  | professional of these sites flagged for                                     |          |
|                                |  | verification concluded that no further                                      |          |
|                                |  | action was warranted on 4 these parcels                                     |          |
|                                |  | for various documented reasons. The   |          |
|                                |  | remaining parcel has a correction action planning for implementation in the |          |
|                                |  | spring of 2018 to passively improve   |          |
|                                |  | streambank stability. For a summary of                                      |          |
|                                |  | inspections see Attachment AQ-GZ;   |          |
|                                |  | Annual Summary Statistics of Grazing  |          |
|                                |  | Verifications and Corrective Actions.                                       |          |
| AQ-Cumulative                  | Report number, type and                                  | CWE analyses were completed for 18  | v.2.4-41 |
| Watershed Effects              | location of CWE analysis                                 | forest management projects during   |          |
| (CWE)                          | completed. Provide                                       | 2017. For 11 of these projects a Level 1                                    |          |
| Has DNRC                       | documentation of   | CWE analysis (coarse filter) was determined to be sufficient level of       |          |
| implemented the CWE            | mitigation measures or alternatives developed for        | analysis due to determination of low  |          |
| commitments?                   | projects with moderate or                                | risks. More detailed analysis (Level 2                                      |          |
| (annual and 5 year)            | high CWE risks.  | and level 3) were completed on the  |          |
|                                |  | other 7 projects where the CWE Coarse                                       |          |
|                                |  | filter analysis determined that there was                                   |          |
|                                |  | potential for moderate to high levels of                                    |          |
|                                |  | risk.   |          |
| Assess the                     | Annual update will consist                               | DNRC has completed pre- and post-   | v.2.4-42 |
| potential Large                | of a summary of the status                               | harvest LWD monitoring on 13 sites  |          |
| Woody Debris (LWD) recruitment | of all monitoring activities.                            | under SMZ/RMZ harvest prescriptions. Post-harvest LWD levels met or         |          |
| and determine                  |  | exceeded targets at all sites. In 2017,                                     |          |
| whether in-stream              |  | one new site was added to the   |          |
| LWD targets will be            |  | monitoring program. A synthesis report                                      |          |
| met on five or                 |  | of completed RMZ monitoring sites is  |          |
| more riparian                  |  | available upon request.   |          |
| harvest sites.                 |  |   |          |
| (annual and 5 year)            |  | DANG!   | 2 1 12   |
| Evaluate levels of             | Annual update will consist                               | DNRC has completed pre- and post-   | v.2.4-42 |
| in-stream shade retained after | of a summary of the status of all monitoring activities. | harvest instream cover monitoring on 12 sites under RMZ/SMZ harvest         |          |
| riparian harvest.              | or all mornitoring activities.                           | prescriptions. Post-harvest shade   |          |
| (annual and 5 year)            |  | monitoring indicates that current   |          |
|                                |  | management is adequate to maintain  |          |
|                                |  | suitable stream temperature regimes for                                     |          |

| HCP                   | ing requirements and results           | ACCOMPLISHMENTS                           | НСР      |
|-----------------------|--|---|----------|
|                       | REPORTING                              |   |          |
| COMMITMENT            | REQUIREMENTS                           | & RESULTS                                 | Page(s)  |
| (Reporting            |  |   |          |
| Frequency)            |  | HCD covered fish species. In 2017, one    |          |
|                       |  | HCP-covered fish species. In 2017, one    |          |
|                       |  | new site was added to the monitoring      |          |
|                       |  | program. A synthesis report of            |          |
|                       |  | completed RMZ monitoring sites is         |          |
| N/a wita watusa wa    | Appropriate will appoint               | available upon request.                   | v.2.4-42 |
| Monitor stream        | Annual update will consist             | DNRC has completed pre- and post-         | V.2.4-42 |
| temperatures to       | of a summary of the status             | harvest stream temperature monitoring     |          |
| evaluate if levels of | of all monitoring activities.          | on 11 sites under RMZ/SMZ harvest         |          |
| in-stream cover are   |  | prescriptions. Post-harvest monitoring    |          |
| adequate to           |  | indicated that 9/11 sites met thresholds  |          |
| maintain stream       |  | identified in the HCP. Two sites did not  |          |
| temperatures.         |  | meet the chronic threshold, while one     |          |
| (annual and 5 year)   |  | site did not meet the acute threshold. A  |          |
|                       |  | monitoring report synthesizing stream     |          |
|                       |  | temperature data is available upon        |          |
| DAAD A JULYAN JU      | A constant and a state of the constant | request.                                  | 2.4.42   |
| BMP Audits on all     | Annual update will consist             | Internal BMP audits were conducted on     | v.2.4-43 |
| applicable projects.  | of a summary of the status             | 6 timber sale projects during 2017.       |          |
| (annual and 5 year)   | of all monitoring activities.          | Results of the internal audits found that |          |
|                       |  | BMPs were properly applied on 98% of      |          |
|                       |  | the practices rated. BMPs were            |          |
|                       |  | effective in protecting soil and water on |          |
|                       |  | 99% of the practices rated. One major     |          |
|                       |  | departure for effectiveness was noted     |          |
|                       |  | on one timber sale regarding skid trail   |          |
|                       |  | operations minimizing impacts to soil     |          |
|                       |  | compaction and displacement. No           |          |
|                       |  | sediment delivery to any water body       |          |
|                       |  | was noted.                                |          |
| Timber sale           | Annual update will consist             | During 2017, 605 timber sale inspections  | v.2.4-43 |
| inspections on all    | of a summary of the status             | were completed on 62 ongoing timber       |          |
| applicable projects.  | of all monitoring activities.          | sale projects within HCP project area.    |          |
| (annual and 5 year)   |  | Examples of inspection reports are        |          |
|                       |  | available upon request.                   | 2.4.5    |
| Ongoing               | Annual update will consist             | Pre-harvest turbidity data was collected  | v.2.4-43 |
| quantitative          | of a summary of the status             | on the Limestone West Timber Sale         |          |
| studies at two        | of all monitoring activities.          | project area. Projected implementation    |          |
| sites.                |  | date in summer of 2019. Pre-corrective    |          |
| (annual and 5 year)   |  | action turbidity data is also being       |          |
|                       |  | collected on a road-stream crossing site  |          |
|                       |  | on South Woodward Creek (Swan unit).      |          |
|                       |  | BMP maintenance is scheduled for the      |          |

| HCP                 | REPORTING                     | ACCOMPLISHMENTS                           | HCP      |
|---------------------|-------------------------------|---|----------|
| COMMITMENT          | REQUIREMENTS                  | & RESULTS                                 | Page(s)  |
| (Reporting          |                               |   |          |
| Frequency)          |                               |   |          |
|                     |                               | summer of 2019.                           |          |
| Case studies        | Annual update will consist    | The South Woodward turbidity              | v.2.4-43 |
| monitoring the      | of a summary of the status    | monitoring project is on-going with pre-  |          |
| effectiveness of    | of all monitoring activities. | corrective action data collection.        |          |
| corrective actions  |                               | Corrective actions to address BMP         |          |
| in reducing         |                               | maintenance is scheduled for the          |          |
| sediment from       |                               | summer of 2019 which will provide two     |          |
| existing sources.   |                               | years of pre-corrective action data.      |          |
| (annual and 5 year) |                               |   |          |
| Determine if fish   | Annual update will consist    | Fish connectivity improvements have       | v.2.4-43 |
| connectivity        | of a summary of the status    | been completed on 19 fish passage         |          |
| corrective actions  | of all monitoring activities. | structures covered under the HCP. DNRC    |          |
| are effective.      |                               | has completed 2-year, and 5-year          |          |
| (annual and 5 year) |                               | effectiveness monitoring on all sites.    |          |
|                     |                               | One corrective action was identified and  |          |
|                     |                               | completed on a structure, all other sites |          |
|                     |                               | met effectiveness thresholds.             |          |
| AQ-GR1              | Complete a plan for Redd      | Initial redd-risk assessment identified   | v.2.8-9  |
| Redd Trampling      | trampling pilot study by      | 135 classified forest grazing parcels     |          |
| Pilot Study.        | year 2.                       | containing stream segments with HCP-      |          |
| (Develop and        |                               | covered species present. Redd-risk were   |          |
| finalize plan by    |                               | assigned to 98% of the parcels, with 45   |          |
| year 2, implement   |                               | total parcels identified for potential    |          |
| plan by year 3)     |                               | corrective actions. Three remaining       |          |
|                     |                               | parcels will be assessed in 2018.         |          |

### TRANSITION LANDS STRATEGY

The purpose of the transition lands strategy is to describe the process for moving DNRC lands into or out of the HCP project area. The strategy ensures adequate levels of conservation for HCP species while allowing DNRC to meet its land management and fiduciary trust obligations. This subsection summarizes land transactions within two cap types (5% and 10%) from the period between January 1, 2017 and December 31, 2017. According to the HCP, DNRC will cap the removal of HCP project area lands in the NCDE and CYE grizzly bear recovery zones, CYE NROH, LMAs, and bull trout core habitat areas to 5% of the baseline of the original HCP project area. Additionally, DNRC would cap the removal of all other HCP lands at 10 to 15% of the original HCP project area. Since acres obtained through the Montana Working Forests Project have not yet been added to the HCP project area, the 10% cap applies.

### **Land Dispositions**

No HCP project area lands were disposed of in 2017. DNRC with well within the cap described above.

#### **TRAINING**

Training DNRC staff responsible for implementing the HCP timber sale planning, design and administration is critical to ensure correct and consistent implementation of HCP commitments.

#### **Implementation Training for this Reporting Period**

The following training took place during the reporting period and will continue as the HCP progresses forward.

#### **Bear Avoidance Training**

A web-based approach to satisfy GB-PR1 was approved by the USFWS and in place July 30, 2013. All staff that normally, or occasionally, perform duties associated with HCP-covered activities viewed the training video hosted on the DNRC employee intranet. Over 161 employees have viewed the video and registered to date. Seventeen new employees to DNRC viewed the training material in 2017. A database is monitored by FMB staff to ensure compliance with GB-PR1 "employees trained on bear avoidance".

#### **Project-level Training**

Project-level training occurs on a regular basis. Forest Management Bureau and Land Office Specialists participate on all Interdisciplinary Teams (ID) for projects in the HCP planning area. These Specialists are very familiar with the HCP and the conservation commitments. Many of them have served on the HCP Workgroup. This has made project-level training one of the most effective training tools for DNRC field staff. Questions arise on a project that might never surface in a classroom training session. Project-level training is ongoing and will continue to be a primary training method.

#### CHANGED CIRCUMSTANCES

The processes for responding to Changed Circumstances are described in Chapter 6 of the HCP. The USFWS and DNRC are required to ensure changed circumstances are identified and planned for in the HCP. Changed Circumstances may be a result of administrative changes, natural events or a natural disturbance. (DNRC 2010)

There were no Changed Circumstances during this reporting period.

### ADJUSTING FOR NEW RESEARCH

DNRC and USFWS are required to exchange any new relevant research or emerging science annually and at the 5-year review. Both parties cooperatively determine if the new information will warrant changes to commitments or management actions.

#### **SUMMARY**

The DNRC has successfully met the requirements for sixth year implementation and monitoring.

#### REFERENCES

DNRC. 2010. Montana Department of Natural Resources and Conservation Forested State Trust Lands Habitat Conservation Plan: Final EIS, Volume II, Forest Management Bureau, Missoula, Montana.

# **Attachment GB-1: Miles of Road in Various Grizzly Bear Management Areas**

| 2012 HCP BASELINE DATA - DNRC Lands in the HCP Project Area                     |               |  |       |           |     |        |                     |         |                                  |
|---|---------------|--|-------|-----------|-----|--------|---------------------|---------|----------------------------------|
|   |               | Linear Miles of Road in Recovery Zones |       |           |     |        | Area                |         | Road                             |
| Land Offices and Unit Offices in Recovery<br>Zones (Scattered or Blocked Status | Open<br>Roads | Restricted<br>Roads                    | Roads | Abandoned |     | Total* | Total Area<br>(mi²) | Acres   | Density*<br>(mi/mi <sup>2)</sup> |
| NWLO  | 187.6         | 479.9                                  | 12.1  | 19.6      | 8.9 | 679.6  | 227                 | 145,262 | 3.0                              |
| Kalispell Unit NCDE (Scattered)   | 14.6          | 28.2                                   | 0.0   | 2.6       | 0.0 | 42.8   | 10                  | 6,465   | 4.2                              |
| Libby Unit CYE (Scattered)  | 0.0           | 8.2                                    | 0.1   | 0.4       | 0.2 | 8.3    | 4                   | 2,848   | 1.9                              |
| Plains Unit CYE (Scattered)   | 6.0           | 8.5                                    | 0.0   | 0.1       | 0.0 | 14.5   | 5                   | 3,308   | 2.8                              |
| Stillwater Unit NCDE (Blocked)  | 122.0         | 227.4                                  | 6.7   | 9.1       | 3.8 | 356.1  | 141                 | 90,512  | 2.5                              |
| Stillwater Unit NCDE (Scattered)  | 2.0           | 11.1                                   | 0.0   | 0.0       | 0.0 | 13.1   | 4                   | 2,474   | 3.4                              |
| Swan Unit NCDE (Blocked)  | 43.0          | 196.5                                  | 5.4   | 7.4       | 4.9 | 244.9  | 62                  | 39,656  | 4.0                              |
| SWLO  | 19.9          | 23.0                                   | 0.0   | 3.6       | 1.0 | 42.9   | 11                  | 7,229   | 3.8                              |
| Clearwater Unit NCDE (Scattered)  | 15.7          | 21.4                                   | 0.0   | 3.6       | 1.0 | 37.1   | 7                   | 4,779   | 5.0                              |
| Missoula Unit NCDE (Scattered)  | 4.2           | 1.6                                    | 0.0   | 0.0       | 0.0 | 5.8    | 4                   | 2,450   | 1.5                              |
| CLO   | 0.2           | 0.3                                    | 0.0   | 0.0       | 0.5 | 0.5    | 1                   | 639     | 0.5                              |
| Helena Unit NCDE (Scattered)  | 0.2           | 0.3                                    | 0.0   | 0.0       | 0.5 | 0.5    | 1                   | 639     | 0.5                              |
| * Does not include Abandoned or Reclaimed Roads                                 | 3             |  |       |           |     |        |                     |         |                                  |

| 2012 HCP BASELINE DATA - DNRC Lands in the HCP Project Area |               |  |                                   |           |           |        |                     |        |                                  |
|---|---------------|--|-----------------------------------|-----------|-----------|--------|---------------------|--------|----------------------------------|
| Land Offices and Unit Offices in Non                        | Lit           | Linear Miles of Road in Non Recovery Occupied Zones Area |                                   |           |           |        | Road                |        |                                  |
| Recovery Occupied Zone (Scattered or<br>Blocked Status)     | Open<br>Roads | Restricted<br>Roads                                      | Seasonally<br>Restricted<br>Roads | Abandoned | Reclaimed | Total* | Total Area<br>(mi²) | Acres  | Density*<br>(mi/mi <sup>2)</sup> |
| NWLO  | 101.2         | 141.2  | 3.0                               | 12.3      | 6.9       | 245.3  | 59                  | 37,715 | 4.2                              |
| Kalispell Unit NCDE (Scattered)                             | 17.9          | 9.0  | 0.0                               | 0.3       | 2.1       | 27.0   | 9                   | 5,950  | 2.9                              |
| Libby Unit CYE (Scattered)                                  | 23.3          | 49.0   | 1.2                               | 0.0       | 0.0       | 73.4   | 15                  | 9,856  | 4.8                              |
| Libby Unit NCDE (Scattered)                                 | 0.0           | 0.0  | 0.0                               | 0.0       | 0.0       | 0.0    | 0                   | 0      | 0.0                              |
| Plains Unit CYE (Scattered)                                 | 8.7           | 2.6  | 1.8                               | 0.0       | 0.0       | 13.1   | 4                   | 2,269  | 3.7                              |
| Plains Unit NCDE (Scattered)                                | 3.7           | 9.7  | 0.0                               | 1.2       | 0.0       | 13.4   | 4                   | 2,813  | 3.0                              |
| Stillwater Unit NCDE (Scattered)                            | 47.6          | 70.9   | 0.0                               | 10.8      | 4.9       | 118.4  | 26                  | 16,826 | 4.5                              |
| SWLO  | 66.4          | 188.2  | 0.4                               | 39.2      | 1.0       | 255.0  | 64                  | 41,314 | 4.0                              |
| Anaconda Unit NCDE (Scattered)                              | 6.7           | 14.4   | 0.0                               | 0.0       | 0.0       | 21.2   | 9                   | 6,011  | 2.3                              |
| Clearwater Unit NCDE (Scattered)                            | 59.6          | 173.8  | 0.4                               | 39.2      | 1.0       | 233.8  | 54                  | 34,672 | 4.3                              |
| Missoula Unit NCDE (Scattered)                              | 0.0           | 0.0  | 0.0                               | 0.0       | 0.0       | 0.0    | 1                   | 631    | 0.0                              |
| CLO   | 10.2          | 68.2   | 0.1                               | 7.3       | 1.9       | 78.5   | 53                  | 33,717 | 1.5                              |
| Bozeman Unit GYE (Scattered)                                | 5.0           | 6.0  | 0.1                               | 0.0       | 0.0       | 11.0   | 13                  | 8,129  | 0.9                              |
| Dillon Unit GYE (Scattered)                                 | 1.5           | 51.9   | 0.0                               | 6.7       | 0.0       | 53.4   | 31                  | 19,627 | 1.7                              |
| Helena Unit NCDE (Scattered)                                | 3.8           | 10.3   | 0.0                               | 0.6       | 1.9       | 14.1   | 9                   | 5,961  | 1.5                              |
| * Does not include Abandoned or Reclaimed Roads             | 5             |  |                                   |           |           |        |                     |        |                                  |

| 2012 HCP BASELINE DATA - DNRC Lands in the HCP Project Area                    |               |                     |                                   |                |             |        |                     |         |                                  |  |  |
|--|---------------|---------------------|-----------------------------------|----------------|-------------|--------|---------------------|---------|----------------------------------|--|--|
|  | Line          | ar Miles of F       | load in Non (                     | Grizzly Bear D | esignated A | eas    | Ar                  | ea      | Road                             |  |  |
| Land Offices and Unit Offices outside<br>Grizzly Bear Zones (Scattered Status) | Open<br>Roads | Restricted<br>Roads | Seasonally<br>Restricted<br>Roads | Abandoned      | Reclaimed   | Total* | Total Area<br>(mi²) | Acres   | Density*<br>(mi/mi <sup>2)</sup> |  |  |
| NWLO   | 279.7         | 284.6               | 2.9                               | 15.8           | 11.5        | 567.2  | 136.0               | 87,358  | 4.2                              |  |  |
| Kalispell Unit   | 110.4         | 71.9                | 0.0                               | 9.8            | 10.9        | 182.3  | 44.0                | 27,980  | 4.2                              |  |  |
| Libby Unit   | 29.2          | 75.6                | 0.3                               | 0.0            | 0.0         | 105.1  | 24.0                | 15,341  | 4.4                              |  |  |
| Plains Unit  | 140.1         | 137.1               | 2.5                               | 6.1            | 0.7         | 279.7  | 69.0                | 44,036  | 4.1                              |  |  |
|  |               |                     |                                   |                |             |        |                     |         |                                  |  |  |
| SWLO   | 232.2         | 378.5               | 10.1                              | 66.5           | 9.2         | 620.9  | 176.0               | 112,436 | 3.5                              |  |  |
| Anaconda Unit  | 78.2          | 63.4                | 0.0                               | 2.0            | 0.8         | 141.6  | 61.0                | 38,760  | 2.3                              |  |  |
| Clearwater Unit  | 29.3          | 31.5                | 0.0                               | 1.3            | 0.0         | 70.1   | 12.0                | 7,698   | 5.8                              |  |  |
| Hamilton Unit  | 36.3          | 98.9                | 9.8                               | 46.9           | 6.4         | 145.0  | 36.0                | 22,820  | 4.1                              |  |  |
| Missoula Unit  | 88.4          | 175.5               | 0.4                               | 16.3           | 2.1         | 264.2  | 67.0                | 43,157  | 3.9                              |  |  |
|  |               |                     |                                   |                |             |        |                     |         |                                  |  |  |
| CLO  | 44.9          | 142.8               | 1.9                               | 13.1           | 1.7         | 189.6  | 122.4               | 78,358  | 1.5                              |  |  |
| Bozeman Unit   | 6.0           | 21.0                | 1.6                               | 0.8            | 0.0         | 28.5   | 13.0                | 8,363   | 2.2                              |  |  |
| Dillon Unit  | 20.1          | 100.7               | 0.3                               | 12.2           | 1.5         | 121.1  | 79.0                | 50,474  | 1.5                              |  |  |
| Helena Unit  | 18.8          | 21.2                | 0.0                               | 0.0            | 0.2         | 40.0   | 31.0                | 19,520  | 1.3                              |  |  |
| * Does not include Abandoned or Reclaimed Road                                 |               |                     |                                   |                |             |        |                     |         |                                  |  |  |

| 20  | 17 HCP Anı    | nual Report -       | DNRC Lands i                      | n the HCP I   | Project Are   | 3      |                        |         |                                  |
|---|---------------|---------------------|-----------------------------------|---------------|---------------|--------|------------------------|---------|----------------------------------|
|   |               | Linear IV           | liles of Road i                   | in Recovery   | Zones         |        | A                      | Area    | Road                             |
| Land Offices and Unit Offices in Recovery<br>Zones (Scattered or Blocked Status | Open<br>Roads | Restricted<br>Roads | Seasonally<br>Restricted<br>Roads | Abandon<br>ed | Reclaime<br>d | Total* | Total<br>Area<br>(mi²) | Acres   | Density*<br>(mi/mi <sup>2)</sup> |
| NWLO  | 165.2         | 495.6               | 12.7                              | 18.7          | 23.1          | 673.5  | 226                    | 145,240 | 3.0                              |
| Kalispell Unit NCDE (Scattered)   | 11.8          | 31.0                | 0.0                               | 2.6           | 0.3           | 42.8   | 10                     | 6,458   | 4.3                              |
| Libby Unit CYE (Scattered)  | 0.0           | 6.9                 | 0.1                               | 0.4           | 1.2           | 7.0    | 4                      | 2,846   | 1.7                              |
| Plains Unit CYE (Scattered)   | 5.6           | 5.9                 | 0.0                               | 3.1           | 0.0           | 11.6   | 5                      | 3,319   | 2.3                              |
| Stillwater Unit NCDE (Blocked)  | 103.8         | 251.5               | 6.7                               | 12.5          | 13.4          | 362.0  | 141                    | 90,480  | 2.6                              |
| Stillwater Unit NCDE (Scattered)  | 1.7           | 11.7                | 0.0                               | 0.0           | 0.0           | 13.4   | 4                      | 2,481   | 3.4                              |
| Swan Unit NCDE (Blocked)  | 42.3          | 188.5               | 5.9                               | 0.1           | 8.2           | 236.7  | 62                     | 39,656  | 3.8                              |
| SWLO  | 9.5           | 18.2                | 0.0                               | 4.4           | 1.5           | 27.7   | 7                      | 5,102   | 4.0                              |
| Clearwater Unit NCDE (Scattered)  | 9.5           | 18.2                | 0.0                               | 4.4           | 1.5           | 27.7   | 7                      | 4,782   | 4.0                              |
| Missoula Unit NCDE (Scattered)  | 0.0           | 0.0                 | 0.0                               | 0.0           | 0.0           | 0.0    | 0                      | 320     | N/A                              |
| CLO   | 0.1           | 0.2                 | 0.0                               | 0.0           | 0.7           | 0.3    | 1                      | 639     | 0.3                              |
| Helena Unit NCDE (Scattered)  | 0.1           | 0.2                 | 0.0                               | 0.0           | 0.7           | 0.3    | 1                      | 639     | 0.3                              |
| * Does not include Abandoned or Reclaimed Roads                                 |               |                     |                                   |               |               |        |                        |         |                                  |

| 2017 HCP Annual Report - DNRC Lands in the HCP Project Area                                  |               |                     |                                   |               |               |        |                        |        |                                  |  |  |  |  |
|--|---------------|---------------------|-----------------------------------|---------------|---------------|--------|------------------------|--------|----------------------------------|--|--|--|--|
|  | Lin           | ear Miles of        | Road in Non I                     | Recovery O    | ccupied Zoi   | nes    | A                      | Area   | Road                             |  |  |  |  |
| Land Offices and Unit Offices in Non Recovery<br>Occupied Zone (Scattered or Blocked Status) | Open<br>Roads | Restricted<br>Roads | Seasonally<br>Restricted<br>Roads | Abandon<br>ed | Reclaime<br>d | Total* | Total<br>Area<br>(mi²) | Acres  | Density*<br>(mi/mi <sup>2)</sup> |  |  |  |  |
| NWLO   | 109.5         | 155.9               | 1.3                               | 12.5          | 12.0          | 266.7  | 58                     | 37,733 | 4.6                              |  |  |  |  |
| Kalispell Unit NCDE (Scattered)  | 22.1          | 9.7                 | 0.1                               | 0.3           | 2.2           | 31.9   | 9                      | 5,978  | 3.5                              |  |  |  |  |
| Libby Unit CYE (Scattered)   | 23.4          | 56.5                | 1.2                               | 0.0           | 0.2           | 81.1   | 15                     | 9,838  | 5.4                              |  |  |  |  |
| Libby Unit NCDE (Scattered)  | 0.0           | 0.0                 | 0.0                               | 0.0           | 0.0           | 0.0    | 0                      | -      | N/A                              |  |  |  |  |
| Plains Unit CYE (Scattered)  | 7.9           | 10.7                | 0.0                               | 0.2           | 0.7           | 18.7   | 4                      | 2,286  | 4.7                              |  |  |  |  |
| Plains Unit NCDE (Scattered)   | 8.0           | 5.4                 | 0.0                               | 1.2           | 0.0           | 13.5   | 4                      | 2,792  | 3.4                              |  |  |  |  |
| Stillwater Unit NCDE (Scattered)   | 48.0          | 73.6                | 0.1                               | 10.9          | 8.9           | 121.7  | 26                     | 16,839 | 4.7                              |  |  |  |  |
| SWLO   | 41.7          | 235.5               | 0.4                               | 37.9          | 6.3           | 277.7  | 63                     | 40,715 | 4.4                              |  |  |  |  |
| Anaconda Unit NCDE (Scattered)   | 1.3           | 34.5                | 0.0                               | 1.6           | 1.9           | 35.9   | 9                      | 6,011  | 4.0                              |  |  |  |  |
| Clearwater Unit NCDE (Scattered)   | 40.4          | 201.0               | 0.4                               | 36.3          | 4.4           | 241.8  | 54                     | 34,683 | 4.5                              |  |  |  |  |
| Missoula Unit NCDE (Scattered)   | 0.0           | 0.0                 | 0.0                               | 0.0           | 0.0           | 0.0    | 0                      | 21     | N/A                              |  |  |  |  |
| CLO  | 16.9          | 69.5                | 1.0                               | 0.6           | 7.9           | 87.4   | 53                     | 33,696 | 1.6                              |  |  |  |  |
| Bozeman Unit GYE (Scattered)   | 5.9           | 12.5                | 0.0                               | 0.0           | 0.4           | 18.5   | 13                     | 8,140  | 1.4                              |  |  |  |  |
| Dillon Unit GYE (Scattered)  | 4.8           | 51.5                | 1.0                               | 0.0           | 0.6           | 57.3   | 31                     | 19,626 | 1.8                              |  |  |  |  |
| Helena Unit NCDE (Scattered)   | 6.1           | 5.5                 | 0.0                               | 0.6           | 6.9           | 11.6   | 9                      | 5,930  | 1.3                              |  |  |  |  |
| * Does not include Abandoned or Reclaimed Roads  |               |                     |                                   |               |               |        |                        |        |                                  |  |  |  |  |

| 2017 HCP Annual Report - DNRC Lands in the HCP Project Area                    |               |                     |                                   |               |               |        |                        |         |                                  |  |  |
|--|---------------|---------------------|-----------------------------------|---------------|---------------|--------|------------------------|---------|----------------------------------|--|--|
|  | Linea         | r Miles of Ro       | ad in Non Gr                      | izzly Bear D  | esignated A   | Areas  | ,                      | Area    | Road                             |  |  |
| Land Offices and Unit Offices outside Grizzly<br>Bear Zones (Scattered Status) | Open<br>Roads | Restricted<br>Roads | Seasonally<br>Restricted<br>Roads | Abandon<br>ed | Reclaime<br>d | Total* | Total<br>Area<br>(mi²) | Acres   | Density*<br>(mi/mi <sup>2)</sup> |  |  |
| NWLO   | 242.2         | 351.4               | 3.2                               | 26.2          | 14.8          | 596.8  | 137                    | 87,354  | 4.4                              |  |  |
| Kalispell Unit   | 93.6          | 108.2               | 0.0                               | 9.8           | 10.9          | 201.8  | 44                     | 27,976  | 4.6                              |  |  |
| Libby Unit   | 32.9          | 78.0                | 0.1                               | 0.0           | 0.0           | 111.0  | 25                     | 15,692  | 4.4                              |  |  |
| Plains Unit  | 115.7         | 165.2               | 3.1                               | 16.4          | 4.0           | 284.0  | 68                     | 43,686  | 4.2                              |  |  |
|  |               |                     |                                   |               |               |        |                        |         |                                  |  |  |
| SWLO   | 134.0         | 457.7               | 11.3                              | 81.7          | 11.7          | 602.9  | 171                    | 109,239 | 3.5                              |  |  |
| Anaconda Unit  | 15.4          | 129.0               | 0.0                               | 13.4          | 2.1           | 144.4  | 60                     | 38,227  | 2.4                              |  |  |
| Clearwater Unit  | 17.8          | 32.5                | 5.0                               | 5.4           | 1.4           | 55.3   | 10                     | 6,391   | 5.5                              |  |  |
| Hamilton Unit  | 30.2          | 104.0               | 3.9                               | 51.1          | 6.2           | 138.1  | 34                     | 21,852  | 4.1                              |  |  |
| Missoula Unit  | 70.6          | 192.1               | 2.3                               | 11.7          | 2.1           | 265.1  | 67                     | 42,769  | 4.0                              |  |  |
|  |               |                     |                                   |               |               |        |                        |         |                                  |  |  |
| CLO  | 73.1          | 96.8                | 2.8                               | 8.3           | 9.2           | 172.7  | 123                    | 78,874  | 1.4                              |  |  |
| Bozeman Unit   | 15.4          | 12.7                | 1.6                               | 0.0           | 2.2           | 29.6   | 13                     | 8,367   | 2.3                              |  |  |
| Dillon Unit  | 33.7          | 84.1                | 1.2                               | 8.3           | 6.8           | 119.0  | 80                     | 50,997  | 1.5                              |  |  |
| Helena Unit  | 24.0          | 0.0                 | 0.0                               | 0.0           | 0.2           | 24.0   | 30                     | 19,510  | 0.8                              |  |  |
| * Does not include Abandoned or Reclaimed Roads                                |               |                     |                                   |               |               |        |                        |         |                                  |  |  |

# Attachment LY-1: Composition of current (January 2018) lynx habitat data, using the HCP lynx habitat definitions, on LMAs in the HCP project area

|                                | 2012 HCP BASELINE DATA - DNRC LANDS in the HCP Project Area |           |                      |      |          |                 |        |           |       |                       |       |                  |  |
|--------------------------------|---|-----------|----------------------|------|----------|-----------------|--------|-----------|-------|-----------------------|-------|------------------|--|
| Habitat Class                  | Proposed LMA's (Land Office)                                |           |                      |      |          |                 |        |           |       |                       |       |                  |  |
| Habitat Class                  | Stillwater \  | Nest (NW) | Stillwater East (NW) |      | Coal Cre | Coal Creek (NW) |        | Swan (NW) |       | Seeley Lake Area (SW) |       | Garnet Area (SW) |  |
| Winter Foraging Habitat        | 20,330  | 57%       | 24,322               | 71%  | 6,410    | 49%             | 21,981 | 60%       | 1,724 | 38%                   | 1,079 | 30%              |  |
| Summer Foraging Habitat        | 6,478   | 18%       | 2,608                | 8%   | 1,934    | 15%             | 4,930  | 14%       | 265   | 6%                    | 255   | 7%               |  |
| Other Suitable Habitat         | 4,066   | 11%       | 2,627                | 8%   | 862      | 7%              | 3,441  | 9%        | 688   | 15%                   | 1,847 | 51%              |  |
| Suitable Habitat Subtotal      | 30,874  | 87%       | 29,557               | 86%  | 9,206    | 70%             | 30,352 | 83%       | 2,677 | 59%                   | 3,181 | 87%              |  |
| Temporary Non-Suitable Habitat | 4,566   | 13%       | 4,903                | 14%  | 3,962    | 30%             | 6,080  | 17%       | 1,854 | 41%                   | 462   | 13%              |  |
| Total Potential Lynx Habitat   | 35,440  | 92%       | 34,460               | 94%  | 13,168   | 86%             | 36,432 | 92%       | 4,531 | 46%                   | 3,643 | 49%              |  |
| Non-Habitat                    | 3,167   | 8%        | 2,226                | 6%   | 2,070    | 14%             | 6,224  | 16%       | 5,396 | 54%                   | 3,863 | 51%              |  |
| DNRC Total Acres               | 38,606  | 100%      | 36,686               | 100% | 15,238   | 100%            | 39,657 | 100%      | 9,928 | 100%                  | 7,507 | 100%             |  |

|                                | 2017 HCP Annual Report - DNRC Lands in the HCP Project Area |      |                      |      |          |                 |        |           |       |                       |       |          |  |
|--------------------------------|---|------|----------------------|------|----------|-----------------|--------|-----------|-------|-----------------------|-------|----------|--|
| Habitat Class                  | Proposed LMA's (Land Office)                                |      |                      |      |          |                 |        |           |       |                       |       |          |  |
| Habitat Class                  | Stillwater West (NW)  |      | Stillwater East (NW) |      | Coal Cre | Coal Creek (NW) |        | Swan (NW) |       | Seeley Lake Area (SW) |       | rea (SW) |  |
| Winter Foraging Habitat        | 17,505  | 50%  | 21,136               | 62%  | 5,805    | 44%             | 18,498 | 51%       | 1,865 | 42%                   | 1,235 | 35%      |  |
| Summer Foraging Habitat        | 10,113  | 29%  | 5,921                | 17%  | 2,180    | 17%             | 4,817  | 13%       | 187   | 4%                    | 219   | 6%       |  |
| Other Suitable Habitat         | 3,540   | 10%  | 3,057                | 9%   | 1,677    | 13%             | 3,899  | 11%       | 806   | 18%                   | 1,532 | 43%      |  |
| Suitable Habitat Subtotal      | 31,158  | 89%  | 30,114               | 89%  | 9,662    | 74%             | 27,214 | 75%       | 2,858 | 64%                   | 2,986 | 84%      |  |
| Temporary Non-Suitable Habitat | 3,771   | 11%  | 3,913                | 11%  | 3,402    | 26%             | 8,937  | 25%       | 1,581 | 36%                   | 588   | 16%      |  |
| Total Potential Lynx Habitat   | 34,929  | 91%  | 34,027               | 93%  | 13,064   | 86%             | 36,151 | 91%       | 4,439 | 45%                   | 3,574 | 48%      |  |
| Non-Habitat                    | at 3,644 9  |      |                      |      | 2,166    | 14%             | 3,503  | 9%        | 5,480 | 55%                   | 3,943 | 52%      |  |
| DNRC Total Acres               | 38,573  | 100% | 36,655               | 100% | 15,230   | 100%            | 39,654 | 100%      | 9,919 | 100%                  | 7,517 | 100%     |  |

# Attachment LY-2: Acres of existing lynx habitat on Non-LMA parcels, using HCP lynx habitat definitions, on DNRC lands by Land Office in the HCP Project Area

| 2012 H                         | 2012 HCP BASELINE DATA- DNRC Lands in the HCP Project Area |      |         |      |         |      |         |  |  |  |  |  |
|--------------------------------|--|------|---------|------|---------|------|---------|--|--|--|--|--|
| Habitat Class                  | HCP Project Area (%)                                       |      |         |      |         |      |         |  |  |  |  |  |
| Habitat Class                  | NW   | /LO  | SW      | /LO  | Cl      | -0   | Total   |  |  |  |  |  |
| Winter Foraging Habitat        | 44,859   | 69%  | 11,101  | 44%  | N/A     | N/A  | 55,960  |  |  |  |  |  |
| Summer Foraging Habitat        | 4,580  | 7%   | 3,110   | 12%  | 3,078   | 8%   | 10,768  |  |  |  |  |  |
| Other Suitable Habitat         | 8,515  | 13%  | 6,267   | 25%  | 22,862  | 60%  | 37,644  |  |  |  |  |  |
| Suitable Habitat Subtotal      | 57,954   | 89%  | 20,478  | 82%  | 25,940  | 69%  | 104,372 |  |  |  |  |  |
| Temporary Non-Suitable Habitat | 7,519  | 11%  | 4,643   | 18%  | 11,901  | 31%  | 24,063  |  |  |  |  |  |
| Total Potential Lynx Habitat   | 65,473   | 47%  | 25,121  | 18%  | 37,841  | 34%  | 128,435 |  |  |  |  |  |
| Non-Habitat                    | 74,694   | 53%  | 118,423 | 82%  | 74,874  | 66%  | 267,991 |  |  |  |  |  |
| Total Acres                    | 140,167  | 100% | 143,544 | 100% | 112,714 | 100% | 396,425 |  |  |  |  |  |

| 2017 HCP ANNUAL REPORT- DNRC Lands in the HCP Project Area |                      |      |         |      |         |      |         |  |  |  |  |
|--|----------------------|------|---------|------|---------|------|---------|--|--|--|--|
| Habitat Class  | HCP Project Area (%) |      |         |      |         |      |         |  |  |  |  |
| Habitat Class  | NW                   | /LO  | SW      | /LO  | С       | LO   | Total   |  |  |  |  |
| Winter Foraging Habitat                                    | 38,195               | 58%  | 11,424  | 46%  | N/A     | N/A  | 49619   |  |  |  |  |
| Summer Foraging Habitat                                    | 5,034                | 8%   | 2,258   | 9%   | 2,781   | 8%   | 10,073  |  |  |  |  |
| Other Suitable Habitat                                     | 12,423               | 19%  | 6,156   | 25%  | 24,521  | 71%  | 43,100  |  |  |  |  |
| Suitable Habitat Subtotal                                  | 55,652               | 85%  | 19,838  | 80%  | 27,302  | 79%  | 102,792 |  |  |  |  |
| Temporary Non-Suitable Habitat                             | 9,648                | 15%  | 4,969   | 20%  | 7,455   | 21%  | 22,072  |  |  |  |  |
| Total Potential Lynx Habitat                               | 65,300               | 47%  | 24,807  | 18%  | 34,757  | 31%  | 124,864 |  |  |  |  |
| Non-Habitat  | 74,940               | 53%  | 114,465 | 82%  | 78,495  | 69%  | 267,900 |  |  |  |  |
| Total Acres*   | 140,240              | 100% | 139,272 | 100% | 113,252 | 100% | 392,764 |  |  |  |  |
| Total, 2012 Baseline Data                                  | 140,167              | 100% | 143,544 | 100% | 112,714 | 100% | 396,425 |  |  |  |  |

# Attachment SD-1: Road Activities Included in DNRC Timber Sale Contracts Sol between 2012 and 2017

| 2017 HC                     | 2017 HCP ANNUAL REPORT - DNRC LANDS IN THE HCP PROJECT AREA  |       |       |       |       |       |                          |  |  |  |  |  |
|-----------------------------|--|-------|-------|-------|-------|-------|--------------------------|--|--|--|--|--|
|                             | HCP PROJECT AREA ROAD ACTIVITIES (MILES) BY REPORTING PERIOD |       |       |       |       |       |                          |  |  |  |  |  |
| Road Activity               | 2012   | 2013  | 2014  | 2015  | 2016  | 2017  | Total Road<br>Activities |  |  |  |  |  |
| Permanent Road Construction | 15.7   | 25.6  | 23.0  | 27.2  | 26.00 | 23.70 | 141.2                    |  |  |  |  |  |
| Temporary Road Construction | 5.3  | 10.9  | 9.3   | 6.0   | 9.2   | 10.5  | 51.2                     |  |  |  |  |  |
| Road Reclamation            | 4.3  | 4.6   | 1.9   | 0.2   | 0     | 0     | 11.0                     |  |  |  |  |  |
| Road Abandonment            | 0.0  | 0.0   | 1.0   | 1.7   | 0.1   | 0     | 2.8                      |  |  |  |  |  |
| Road Reconstruction         | 10.8   | 11.1  | 11.3  | 19.7  | 16.6  | 6.6   | 76.1                     |  |  |  |  |  |
| BMP Maintenance             | 120.2  | 111.3 | 204.6 | 177.9 | 176.3 | 199.8 | 990.1                    |  |  |  |  |  |
| Total Road Activities       | 156.3  | 163.5 | 251.1 | 232.7 | 228.2 | 240.6 | 1,272.4                  |  |  |  |  |  |

# Attachment AQ-GZ: Annual Summary Statistics of Grazing Inspections, Verifications and Implemented Corrective Actions

| Calander | Midterm | Renewal | Total       | HCP     | % HCP | Supporting HCP | % HCP   | Verification | % Verification | Corrective Action | Cumlative Corrective |
|----------|---------|---------|-------------|---------|-------|----------------|---------|--------------|----------------|-------------------|----------------------|
| Year     | Evals   | Evals   | Evaluations | Parcels | % HCP | Fishery?       | Fishery | Completed    | % verification | Implemented       | Actions              |
| 2012     | 19      | 81      | 100         | 83      | 83%   | 30             | 36%     | 12           | 12%            | 4                 | 4                    |
| 2013     | 63      | 60      | 123         | 98      | 80%   | 24             | 24%     | 10           | 8%             | 1                 | 5                    |
| 2014     | 33      | 25      | 58          | 39      | 67%   | 13             | 33%     | 3            | 5%             | 4                 | 9                    |
| 2015     | 17      | 26      | 43          | 27      | 63%   | 7              | 26%     | 3            | 7%             | 1                 | 10                   |
| 2016     | 42      | 62      | 104         | 76      | 73%   | 13             | 17%     | 2            | 2%             | 0                 | 10                   |
| 2017     | 55      | 28      | 83          | 65      | 78%   | 16             | 25%     | 4            | 5%             | 0                 | 10                   |
| Summary  | 174     | 254     | 428         | 323     | 73%   | 87             | 27%     | 30           | 7%             | 10                | 10                   |